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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,740	03/24/2004	Wei-Chen Chen	370.8023USU	4642
7590 02/07/2005			EXAMINER	
Paul D. Greeley Esq.			KLAUS, LISA NHUNG	
Ohlandt, Greele	y, Ruggiero & Perle, L.L.	P.		
10th Floor			ART UNIT	PAPER NUMBER
One Landmark Square			2832	
Stamford, CT 06901-2682			DATE MAILED: 02/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Anti- Occurrence	10/807,740	CHEN, WEI-CHEN
Office Action Summary	Examiner	Art Unit
	Lisa N. Klaus	2832
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with t	he correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply bly within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS te, cause the application to become ABANI	be timely filed  O) days will be considered timely.  Forom the mailing date of this communication.  DONED (35 U.S.C. § 133).
Status		
<ul> <li>1) ⊠ Responsive to communication(s) filed on 24 M</li> <li>2a) ☐ This action is FINAL. 2b) ⊠ This</li> <li>3) ☐ Since this application is in condition for allowed closed in accordance with the practice under</li> </ul>	s action is non-final. ance except for formal matters	
Disposition of Claims		
4) ☐ Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examin	awn from consideration. or election requirement.	
10) ☐ The specification is objected to by the Examination 10. ☐ The drawing(s) filed on 24 March 2004 is/are:  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11. ☐ The oath or declaration is objected to by the Examination is objected to be a considered to be administration is objected to be ad	a)⊠ accepted or b)⊡ object e drawing(s) be held in abeyance. ction is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applority documents have been recaute (PCT Rule 17.2(a)).	lication No ceived in this National Stage
Attachment(s)	A) [] Intention Com	iman/(PTO 413)
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ol>		mary (P10-413) fail Date mal Patent Application (PTO-152)

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#### **DETAILED ACTION**

## Claim Objections

1. Claim 6 is objected to because of the following informalities:

Regarding claim 6, line 1, change "Claim1" to -Claim 1--.

Appropriate correction is required.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5-7 and 11-13 are rejected under 35 U.S.C. 102(b) as being anticipated by King et al. (US 6,423,918).

King discloses a dome switch comprising:

- Regarding claim 1, King discloses:
  - a mounting end portion 40 disposed in a first plane;
  - a central operating portion 34 disposed in a second plane;
  - an intermediate buffer portion 32 interconnecting portion and;
- first and second support portions 40, 48 spaced apart from each other in a second direction transverse to the first direction and extending from the central operating portion in the first direction toward the first plane.

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## - Regarding claims 5 and 11, King discloses:

- the central operating portion is formed with a projection 36 that protrudes in the first direction toward the first plane or circuit board 16, and that contacts electrically the electrical contact unit when the central operating portion 34 is in the pressed position.

# - Regarding claim 6, King discloses:

- the first and second support portions 40 extend inclinedly from the central operating portion 34 and away from each other.

## - Regarding claim 7, King discloses:

- a circuit board 16 with an electrical contact unit 18;
- a mounting end portion 40 mounted on the circuit board 16;
- a central operating portion 34 spaced apart from the electrical contact unit of the circuit board 16 in a first direction;
- an intermediate buffer portion 32 interconnecting the mounting end portion 40 to the central operating portion 34;
- first and second support portions 40, 48 spaced apart from each other in a second direction transverse to the first direction and extending from the central operating portion 34 in the first direction toward the circuit board 16;
- the central operating portion 34 being operable so as to move from a normal position, where the central operating portion 34 is spaced apart from the electrical contact unit, to a pressed position, where the central operating portion 34, the intermediate buffer portion 32 and the first

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and second support portions 40 deform and where the central operating portion 34 contacts electrically the electrical contact unit 18;

#### - Regarding claim 12, King discloses:

- the first and second support portions 40, 48 extend inclinedly from the central operating portion 34 and away from each other, and have distal ends that are in contact with the circuit board 16;

### - Regarding claim 13, King discloses:

- the circuit board 16 is further formed with a solder pad 20 for mounting the mounting end portion 40 of the conductive body 30 thereon, the central operating portion 34 connecting electrically the electrical contact unit to the solder pad 18 when the central operating portion 34 is in the pressed position.

#### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-4 and 8-10 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over King in view of Martin (US 4,376,238).

King discloses the instant claim invention as discussed above except that the intermediate buffer portion includes a bend section.

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Matin discloses an electrical device comprising:

- Regarding claims 2 and 8, King discloses:

- the intermediate buffer portion includes a bend section extending

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from the mounting end portion and linear extension section extending from

the bend section 18 to the central operating portion.

- Regarding claims 3 and 9, King discloses:

- wherein the bend section 18 is inverted U – shaped.

- Regarding claims 4 and 10, Martin discloses:

- the intermediate buffer portion having a curved section 18

extending from the mounting end portion in the first direction toward the

central operating portion.

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to have the bend intermediate buffer portion as taught by

Martin with King's switch for the purpose of extending the switches' life.

- Regarding claim 14, King does not disclose a pair of electrical contacts

space a part from each other.

- Martin discloses the electrical contacts unit included a pair of

electrical contacts 12 and 13 spaced apart from each other, the central

operating portion interconnecting electrically the electrical contacts of the

electrical contact unit when the central operating portion is in the pressed

position.

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to replace the pair the electrical contacts 12 and 13

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as taught by Martin with King's switch for the purpose of conducting

electricity easily, since it has been held that mere duplication of the

essential working parts of a device involves only routine skill in the art. St.

Regis Paper Co. v. Bemis Co., 193 USPQ 8.

#### Conclusion

Any inquiry concerning this communication should be directed to Lisa Nhung 4. Klaus whose telephone number is (571)272-1993, and whose fax number is 703-872-9306. In the event that I am not reached, you can contact my supervisor, Mr. Elvin G. Enad at (571)272-1990 or the tech center receptionist at (703) 308-1782.

LK

Lisa Nhung Klaus

Patent Examiner - Art Unit 2832

January 29, 2005

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